AMSAT News Service Weekly Bulletins
Issue: ANS-197
Date: 2017-07-16
Sources: amsat-ans-2017-ans-197-weekly-hyperkitty-24501a7ee1.txt

---
I apologize for the delay in publishing this week's ANS 197.

The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to:
ans-editor at amsat.org.

In this edition:

* ARISS Celebrates it’s 20th Anniversary through SSTV Event
* 3U CubeSat with FM Transponder Launch Planned for August 16
* International Space Station school contact
* NEON - NASA Educators Online Network
* Tour de France Special Event Station Includes Satellite Operation
* Satellite Shorts From All Over

SB SAT @ AMSAT $ANS-197.01
ANS-197 AMSAT News Service Weekly Bulletins

AMSAT News Service Bulletin 197.01
>From AMSAT HQ KENSINGTON, MD.
July 16, 2017
To All RADIO AMATEURS
BID: $ANS-197.01

ARISS Celebrates it’s 20th Anniversary through SSTV Event

In commemoration of the 20th Anniversary of ARISS, a Slow Scan Television (SSTV) event is planned for Thursday, July 20 starting around 21:25 UTC. The event plans to feature images from ARISS activities both past and present. This opportunity should cover most of the world during the operation period.

The event plans to use a computer on the ISS Russian Segment, which stores images that are then transmitted to Earth using the ham radio, specifically the onboard Kenwood TM D710 transceiver. Those receiving the images can post them at https://ariss-sstv.blogspot.com/ for viewing by the public.

The 20 year history of ARISS will be displayed through a collection of 12 unique images sharing the amazing accomplishments of ARISS over the last two decades. SSTV signals will be sent to earth at 145.80 MHz using FM. The SSTV mode of transmission is expected to be PD 120 (PD 180 may be a second option). The event is expected to continue over a two day period.

Since it’s inception, Amateur Radio on the International Space Station (ARISS) has provided students an opportunity, through ham radio, to engage in conversation with orbiting astronauts and inspired many to seek careers in science, technology, engineering and math. Consider how you might inspire students in your area through this chance to capture images directly from space to their computers.

Please note that the event, and any ARISS event, is dependent on other activities, schedules and crew responsibilities on the ISS and are subject to change at any time.

While preparations are being finalized please check for new and the most current information on the AMSAT.org and ARISS.org websites, the AMSAT-BB(a)amsat.org, the ARISS facebook at Amateur Radio On The International Space Station (ARISS) and ARISS twitter @ARISS_status for the latest information on this event.

[ANS thanks ARISS for the above information]

3U CubeSat with FM Transponder Launch Planned for August 16

A 3U CubeSt, FMN-1, is planned for launch on August 16 from China's Jiuquan Satellite Launch Center located in the Gobi desert, Inner Mongolia.

FMN-1 will fly an FM repeater:
Uplink: 145.945 MHz FM
Downlink: 435.350 MHz FM (plus telemetry)
A 9k6 BPSK AX25 UHF downlink with an FM uplink on VHF is included.

The main mission of the satellite includes a new component experiment and deployable solar panels.

IARU coordination information is posted at:
http://www.amsatuk.me.uk/iaru/finished_detail.php?serialnum=567

[ANS thanks the IARU for the above information]

An International Space Station school contact has been planned with participants at ISS R&D conference, Washington, D.C. on 20 July. The event is scheduled to begin at approximately 13:23 UTC. It is recommended that you start listening approximately 10 minutes before this time. The duration of the contact is approximately 9 minutes and 30 seconds. The contact will be a telebridge between NA1SS and W6SRJ. The contact should be audible over the west coast of the U.S. Interested parties are invited to listen in on the 145.80 MHz downlink.
The contact is expected to be conducted in English.

This ARISS contact will be conducted with Youth in Aviation Program students from the East Coast Chapter, Tuskegee Airmen, Inc. (ECCTAI) attending the ISS Research and Development conference as part of the conference's STEM day. ECCTAI is one of the largest Tuskegee Airmen, Inc. chapters in United States and serves the Washington DC area. ECCTAI is dedicated to keeping alive the history, achievements, and importance of the original Tuskegee Airmen.
The term, "Tuskegee Airmen," refers to the men and women, who were

involved in the so-called "Tuskegee Experience", the World War II Army Air Corps program to train African Americans to fly and maintain combat aircraft.

ECCTAI strives to increase understanding of the "Tuskegee Experience" by honoring the accomplishments and perpetuating the history of the men and women who participated in the "Tuskegee Experience" and to introduce young people to the world of aviation and space through its Youth in Aviation Program (YIAP). YIAP motivates and inspires America's youth to strive for similar excellence of these earlier pioneers, exposing them to aviation and space careers (Level I), attending FAA ground school (Level II) and receiving aircraft flight instruction or interning at an FAA certified A&P (Airframe and Powerplant) facility (Level III).

[ANS thanks ARISS for the above information]

NEON - NASA Educators Online Network ANNOUNCEMENTS

Free STEM Education Webinars From NASA Educator Professional Development

The NASA STEM Educator Professional Development Collaborative (EPDC) at Texas State University is presenting a series of free webinars open to all educators. Join NASA education specialists to learn about activities, lesson plans, educator guides and resources that bring NASA into your classroom. Registration is required to participate. To register, simply click on the link provided beneath the webinar description.

July 17, 2017, at 6:30 p.m. ET: Solar Eclipse: Edible Experiments/ The Great American Eclipse / Eclipse Book Reviews (Grades K-12) -- Explore resources for making edible models to teach about lunar and solar eclipses. Browse websites with hands-on activities on subjects such as protection from UV rays. Learn about a collection of children's literature to use for studying the eclipse. These activities will be great for summer camps and back-to-school events before the solar eclipse on Aug. 21, 2017. Register online to participate. https://www.eiseverywhere.com/263976

July 18, 2017, at 6:30 p.m. ET: Solar Eclipse: Guest Scientist -- High-Altitude Ballooning (Grades K-12) -- Get an overview of high-altitude ballooning during eclipses with Bernhard Beck-Winchatz from the STEM Studies Department at DePaul University in Chicago, Illinois. Beck-Winchatz has worked on several NASA projects using weather balloon flights that provide affordable access to a spacelike environment for student research. Register online to participate. https://www.eiseverywhere.com/263980

July 19, 2017, at 6:30 p.m. ET: Solar Eclipse: Building Your Own Eclipse Equipment for Your Classroom on a Budget (Grades K-12) -- Learn how to build inexpensive models to teach solar eclipse concepts in the classroom. Register online to participate. https://www.eiseverywhere.com/263974

July 20, 2017, at 6:00 p.m. ET: Solar Eclipse: What, When, Where, How and Safety (Grades K-12) -- On Aug. 21, 2017, most Americans will

experience
their first total solar eclipse in almost 40 years. What is a solar eclipse?
Where will the eclipse be visible? When will the eclipse occur? How can the
eclipse be viewed safely? This webinar will explore these questions using some of the many NASA resources and classroom lessons supporting
this solar event. Learn about the important safety of properly viewing
the eclipse with your students. Register online to participate.
https://www.etouches.com/263468

For the NASA STEM Educator Professional Development webinar schedule, go to: http://www.txstate-epdc.net/events/

Tour de France Special Event Station Includes Satellite Operation

F, France: TM24TDF is a special event call operating around the Tour de France 2017. QRV until July 21 on HF and via satellites. QSL via F6KHS (d/B).

[ANS thanks DX Newsletter DXNL 2049 - July 12, 2017 for the above information]

Satellite Shorts From All Over

+ AMSAT Journal Needs Your Words and Wisdom

  The AMSAT Journal is looking for interesting articles, experiences and photos to share with other AMSAT members. Writing for the Journal is an exellent way both to give back to the AMSAT community and to help others learn and grow in this most fascinating aspect of the amateur radio avocation.

  Author deadlines for upcoming Journals through 2017 include:
  Sept/Oct Edition September 15
  Nov/Dec Edition November 15

  Send your manuscripts and photos, or story ideas to:
  journal (at) amsat.org

  For more information visit:
  https://www.amsat.org/how-to-write-for-the-amsat-journal/

  [ANS thanks Joe KB6IGK for the above information]

+ Need to contact AMSAT-NA?

  AMSAT-NA
  10605 Concord St, #304
  Kensington, MD 20895-2526 USA
  Toll-Free: +1 (888) 322-6728
  Phone: +1 (301) 822-4376
  Fax: +1 (301) 822-4371
  info(a)amsat.org

  [ANS thanks AMSAT-NA for the above information]

+ For information on AMSAT and AMSAT-Related Nets visit:
  https://www.amsat.org/amsat-and-amsat-related-nets/

[ANS thanks AMSAT-NA for the above information]

+ AMSAT Symposium

AMSAT NA announces that the 2017 AMSAT Space Symposium will be held on Friday through Sunday, Oct 27, 28, 29, 2017 in Reno, Nevada. Location will be at the Silver Legacy Resort , 407 N Virginia Street, in Downtown, Reno.

For more information visit:
https://www.amsat.org/amsat-symposium/

With less than four months left for Symposium, now is the time to start writing your papers and preparing your presentations.

[ANS thanks the Symposium Committee for the above information.

/EX

In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

Primary and secondary school students are eligible for membership at one-half the standard yearly rate. Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in this status. Contact Martha at the AMSAT Office for additional student membership information.

73,
This week's ANS Editor,
Christopher Bradley, KG5JUP
kg5jup at amsat dot org